Dell™ 1908FP-BLK Flat Panel Monitor User's Guide

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Notes, Notices, and Cautions

NOTE: A NOTE indicates important information that helps you make better use of your computer.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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Model 1908FPt, 1908FPf, 1908FPb

September 2008 Rev. A00

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About Your Monitor

Dell™ 1908FP-BLK Flat Panel Monitor User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Plug and Play Capability
- Maintenance Guidelines

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and contact Dell if something is missing.

NOTE: Some items may be optional and may not ship with your Monitor. Some features or media may not be available in certain countries.

	• Monitor with stand
	• Stand
	• USB upstream cable
	• Power Cable

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	• VGA Cable
	• DVI Cable
	• *Drivers and Documentation* media • *Quick Setup Guide* • Safety Information

Product Features

The **Dell™ 1908FP-BLK** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- 19-inch (481.9 mm) viewable area display (measured diagonally).
- 1280 x 1024 resolution, plus full-screen support for lower resolutions.
- Tilt, swivel, vertical extension and rotate adjustment capabilities.
- Removable pedestal and VESA 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation CD includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Asset Management Capable.

Identifying Parts and Controls

Front View

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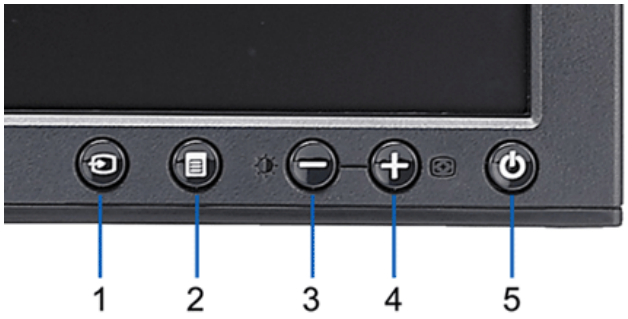
Front View



Front panel controls

1	Video input select
2	OSD menu / select button
3	Brightness & Contrast / Down (-) button
4	Auto-Adjust / Up (+) button
5	Power button (with power light indicator)

Back View

Back view

Back View with monitor stand

1	VESA mounting holes (100mm) (Behind attached VESA plate)	Use to mount the monitor.
2	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
3	Security lock slot	Use a security lock with the slot to help secure your monitor.
4	Dell Soundbar mounting brackets	Attach the optional Dell Soundbar.
5	Regulatory rating label	Lists the regulatory approvals.
6	Stand removal button	Press to release the stand.
7	Cable management slot	Help organize cables by placing them through the slot.

Side View

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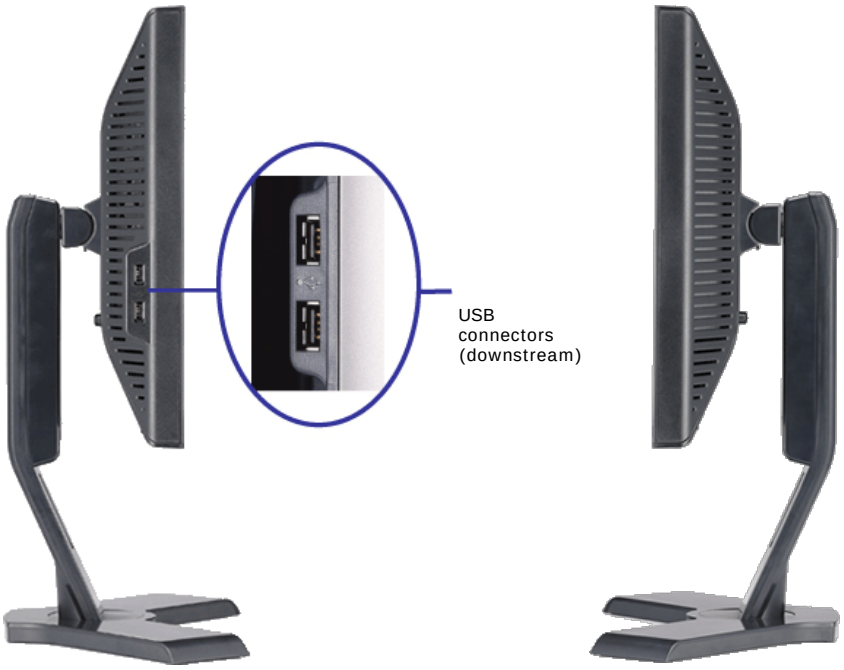

Left view

Right view

Bottom View

Bottom view

1	Power connector	Insert the power cable.
2	Dell Soundbar power connector	Connect the power cord for the Soundbar (optional).
3	DVI connector	Connect your computer DVI cable.
4	VGA connector	Connect your computer VGA cable.
5	USB upstream connector	Connect the USB cable that came with your monitor to the monitor and the computer. Once this cable is connected you can use the USB connectors on the side and bottom of the monitor.
6	USB connector	Connect your USB devices.

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Monitor Specifications

Flat Panel Specifications

Model	1908FP-BLK
Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	19 inches (19-inch viewable image size)
Preset display area:	
Horizontal	380 mm (14.96 inches)
Vertical	300 mm (11.81 inches)
Pixel pitch	0.294 mm
Viewing angle	160° (vertical) typ, 160° (horizontal) typ
Luminance output	300 cd/m ²(typ)
Contrast ratio	800 to 1 (typ)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	CCFL (4) edgelight system
Response Time	5ms typical

Resolution Specifications

Horizontal scan range	30 kHz to 81 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)
Optimal preset resolution	1280 x 1024 at 60 Hz
Highest preset resolution	1280 x 1024 at 75 Hz

Video Supported Modes

Video display capabilities (DVI playback)	480p/576p/720p (Supports HDCP)

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.0	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.0	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+

Electrical Specifications

Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance

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Video input signals	Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 to 240 VAC/50 or 60 Hz ± 3 Hz/1.5A (Max.)
Inrush current	120V:42A (Max.) 240V:80A (Max.)

Physical Characteristics

Model	**1908FP-BLK**
Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector
Signal cable type	Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor Analog: Detachable, D-Sub, 15pins, shipped attached to the monitor
Dimensions (with stand)	
Height (Compressed)	14.26 inches (362.6 mm)
Height (Extended)	19.39 inches (492.6 mm)
Width	16.15 inches (410.1 mm)
Depth	7.17 inches (182.0 mm)
Dimensions (without stand)	
Height	13.31 inches (338.1 mm)
Width	16.15 inches (410.1 mm)
Depth	2.59 inches (65.9 mm)
Stand dimensions	
Height (Compressed)	13.69 inches (347.7 mm)
Height (Extended)	15.39 inches (391.0 mm)
Width	13.29 inches (337.6 mm)
Depth	7.17 inches (182.0 mm)
Weight	
Weight with packaging	16.65 lbs (7.1 kg)
Weight with stand assembly and cables	12.12 lbs (5.5 kg)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	8.59 lbs (3.9 kg)
Weight of stand assembly	3.53 lbs (1.6 kg)

Environmental Characteristics

Temperature	
Operating	5° to 35°C (41° to 95°F)
Non-operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C (-4° to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	3,657.6m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	204.86 BTU/hour (maximum)

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	102.43 BTU/hour (typical)

Power Management Modes

If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as *Power Save Mode**. If the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	Green	30 W (typical)/60 W (maximum)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W

The OSD will only function in the *normal operation* mode. When the **menu** or **plus** buttons are pressed in Active-off mode, one of the following messages will be displayed:

```
Analog Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse
OR
Digital Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse
```

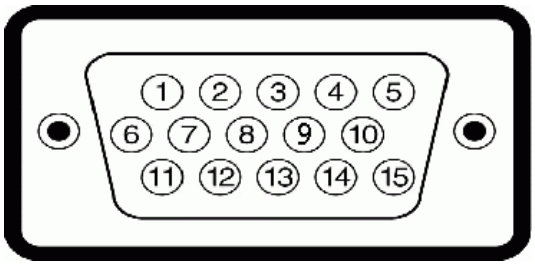
Activate the computer and the monitor to gain access to the OSD.

NOTE: This monitor is **ENERGY STAR**®-compliant as well as TCO '99 power management compatible.

* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

Pin Assignments

VGA Connector



Pin Number	15-pin Side of the Connected Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	Computer 5V/3.3V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

DVI Connector

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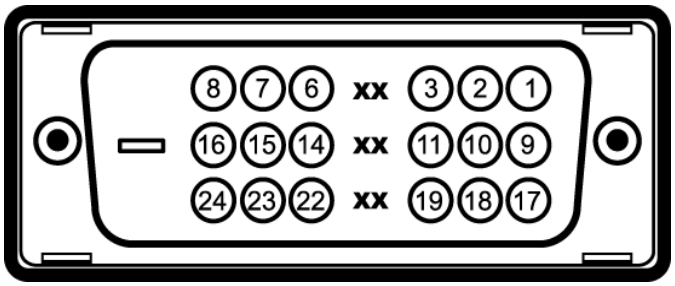

Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS RX2-
2	TMDS RX2+
3	TMDS Ground
4	Floating
5	Floating
6	DDC Clock
7	DDC Data
8	Floating
9	TMDS RX1-
10	TMDS RX1+
11	TMDS Ground
12	Floating
13	Floating
14	+5V/+3.3V power
15	Self test
16	Hot Plug Detect
17	TMDS RX0-
18	TMDS RX0+
19	TMDS Ground
20	Floating
21	Floating
22	TMDS Ground
23	TMDS Clock+
24	TMDS Clock-

Universal Serial Bus (USB) Interface

This monitor supports High-Speed Certified USB 2.0 interface.

	Data Rate	Power Consumption
High speed	480 Mbps	2.5W (Max., each port)
Full speed	12 Mbps	2.5W (Max., each port)
Low speed	1.5 Mbps	2.5W (Max., each port)

USB ports:

- **1 upstream - rear**
- **4 downstream - 2 on rear; 2 on left side**

NOTE: USB 2.0 capability requires 2.0-capable computer.

NOTE: The USB interface of the monitor works ONLY when monitor is powered ON (or in Power Save Mode). Switching your monitor OFF and then ON would re-enumerate its USB interface; attached peripherals may take a few seconds to resume normal functionality.

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see Operating the Monitor.

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LCD Monitor Quality and Pixel Policy

During the LCD monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: **support.dell.com**

Maintenance Guidelines

Cleaning Your Monitor

CAUTION: Read and follow the safety instructions before cleaning the monitor.

CAUTION: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

- To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as dark-colored monitors may scratch and show white scuff marks more than light-colored monitors.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

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Setting Up the Monitor

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- Attaching the Stand
- Connecting the Monitor
- Organizing the Cables
- Attaching the Soundbar (optional)
- Removing the Stand
- Wall Mounting (Optional)

Attaching the Stand

NOTE: The stand is detached from monitor when they are shipped from the factory.

1. Remove the cover and place the monitor on it.
2. Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.
3. Press the stand till it snaps into place.

Connecting Your Monitor

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.
2. Connect either the white (digital DVI-D) or the blue (analog VGA) display connector cable to the corresponding video port on the back of your computer. Do not connect both cables on the same computer. Use both the cables only when they are connected to two different computers with appropriate video systems.

Connecting the White DVI Cable

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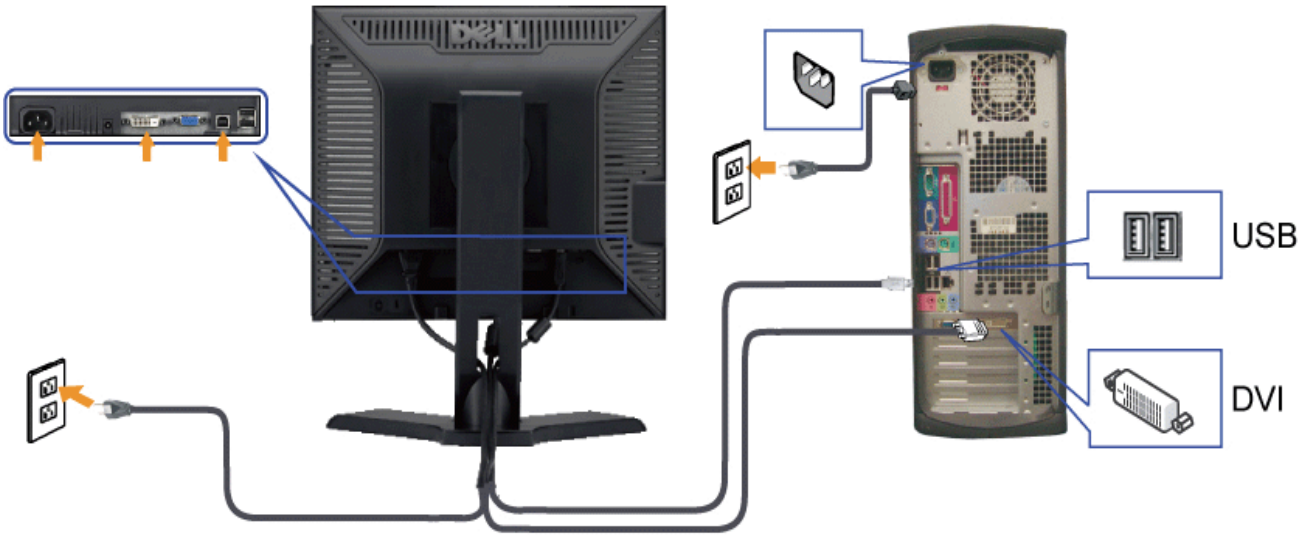
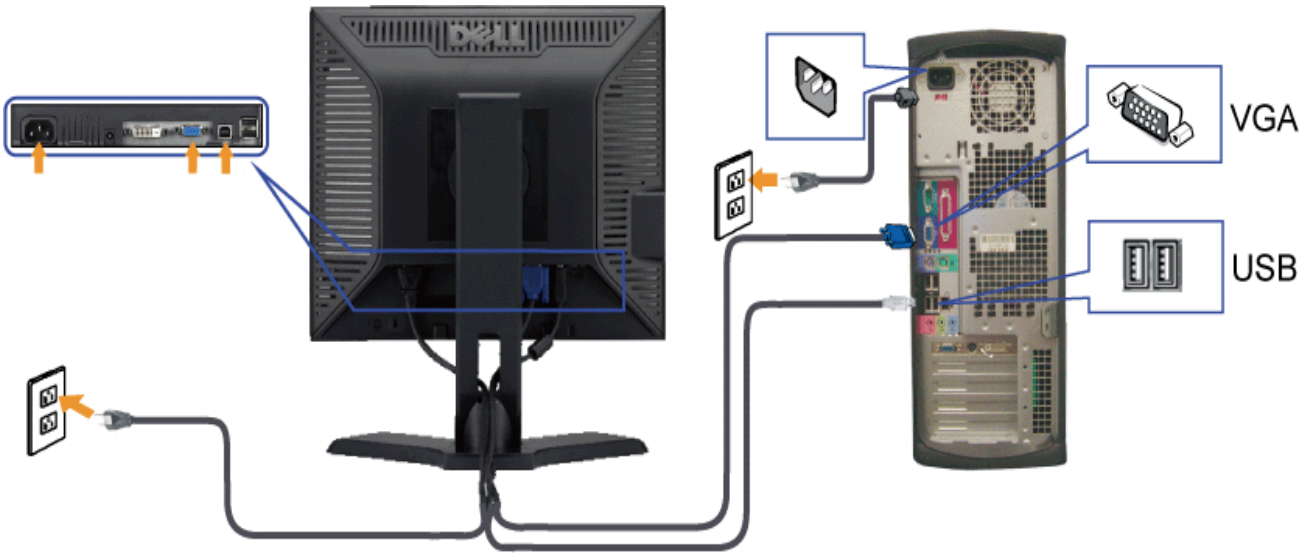


Connecting the Blue VGA Cable



CAUTION: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Organizing the Cables

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After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) use the cable management slot to organize all cables as shown above.

Attaching the Soundbar(optional)

NOTICE: Do not use with any device other than Dell Soundbar.

1. Working from the rear of the monitor, attach the Dell Soundbar by aligning the two slots with the two tabs along the bottom rear of the monitor.
2. Slide the Dell Soundbar to the left until it snaps into place.
3. Connect the soundbar to the Dell Soundbar power connector (See Bottom View for Details)
4. Insert the lime-green mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

Removing the Stand

NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a clean surface.

To remove the stand:

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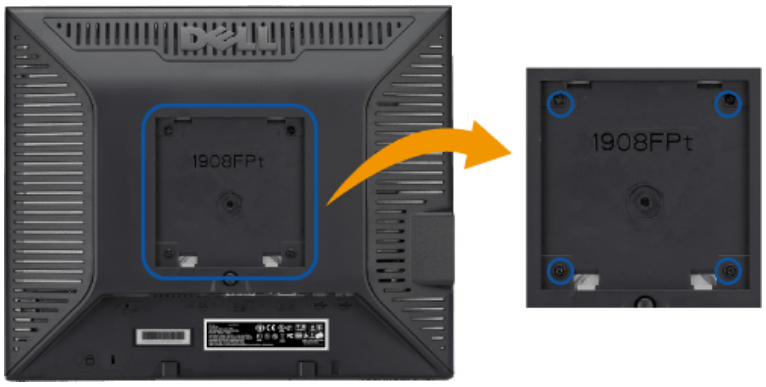
1. Rotate the stand to allow access to the stand release button.
2. Press the stand release button and lift up the stand and away from the monitor.

Wall Mounting (Optional)



(Screw dimension: M4 x 10mm).

Refer to the instructions that come with the VESA compatible base mounting kit.

1. Place the monitor panel on soft cloth or cushion on stable flat table.
2. Remove the stand
3. Use a screwdriver to remove the four screws securing the plastic cover.
4. Attach the mounting bracket from the wall mounting kit to the LCD.
5. Mount the LCD on the wall by following the instructions that come with the base mounting kit.

NOTE: For use only with UL Listed Wall Mount Bracket with minimum weight/load bearing capacity of 4.36kg.

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Operating the Monitor

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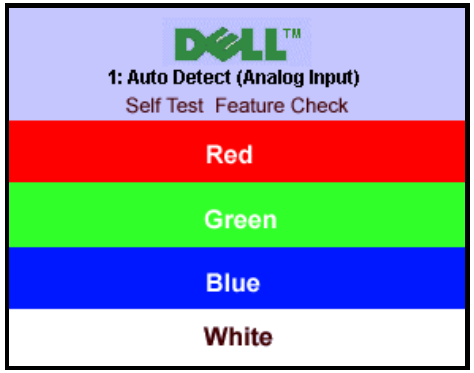
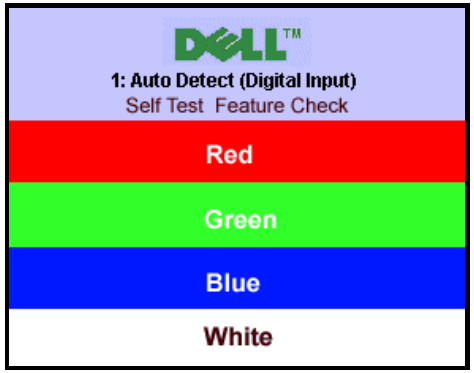
- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- Setting the Optimal Resolution
- Using the Dell Soundbar (Optional)
- Using the Tilt, Swivel, and Vertical Extension
- Changing the Rotation of Your Monitor

Using the Front Panel Controls

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.

Front panel Button	Description
Input select	Use the Input Select button to select between two different video signals that may be connected to your monitor. If both VGA and DVI cables are connected to one PC, this monitor will display an image automatically just as long as a video signal is present in either VGA or DVI outputs. When connecting one display to two PCs, if using screen savers, best to set both to the exact times. Whichever mouse is moved first will activate that video input first. **NOTE:** The floating 'Dell Self-test Feature Check' dialog appears on a black background if the monitor cannot sense a video signal. Using the input select button, select the desired input to be tested either Analog Input or Digital Input. Disconnect the video cable from the video card and the Dell Self-test Feature Check dialogue box will appear if the display is operating correctly.  or 

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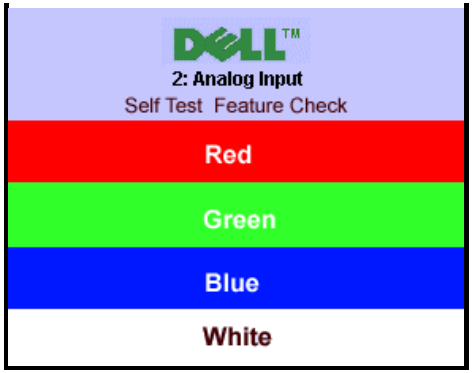
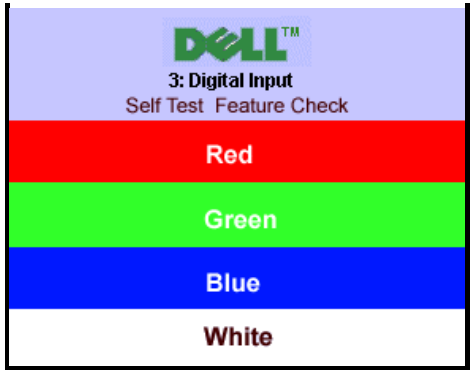
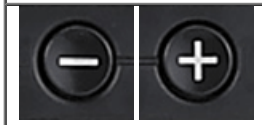
	 or 
 OSD menu / select	The Menu button is used to open and exit the on-screen display (OSD), and exit from menus and sub-menus. See Using the OSD Menu.
 **Down (-) and Up (+)**	Use these buttons to adjust (decrease/increase ranges) items in the OSD menu.
 Brightness/Contrast	Use this button to launch Brightness/Contrast Menu.
 Auto Adjust	Use this button to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor self-adjusts to the current input: Auto Adjustment button allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse), Phase (Fine) controls in the OSD. **NOTE:** Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.
 Power Button and Indicator	Use the power button to turn the monitor on and off. The green light indicates the monitor is on and fully functional. An amber light indicates power save mode.

Using the On-Screen Display (OSD) Menu

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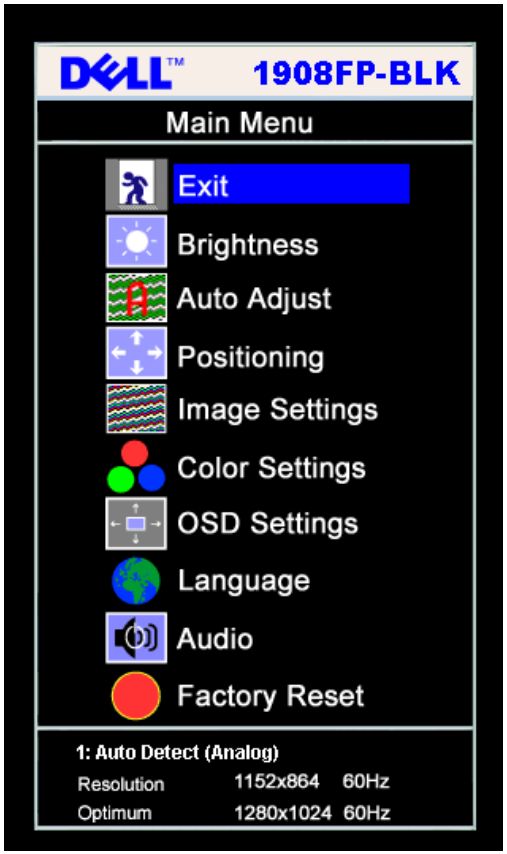
Accessing the Menu System

NOTE: If you change the settings and then either proceed to another menu, or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

Push the MENU button to open the OSD menu and display the main menu.

1.

Main Menu for Auto Detect Analog (VGA) Input



Main Menu for Analog (VGA) Input

or

Main Menu for Auto Detect Digital (DVI) Input

Main Menu for Digital (DVI) Input

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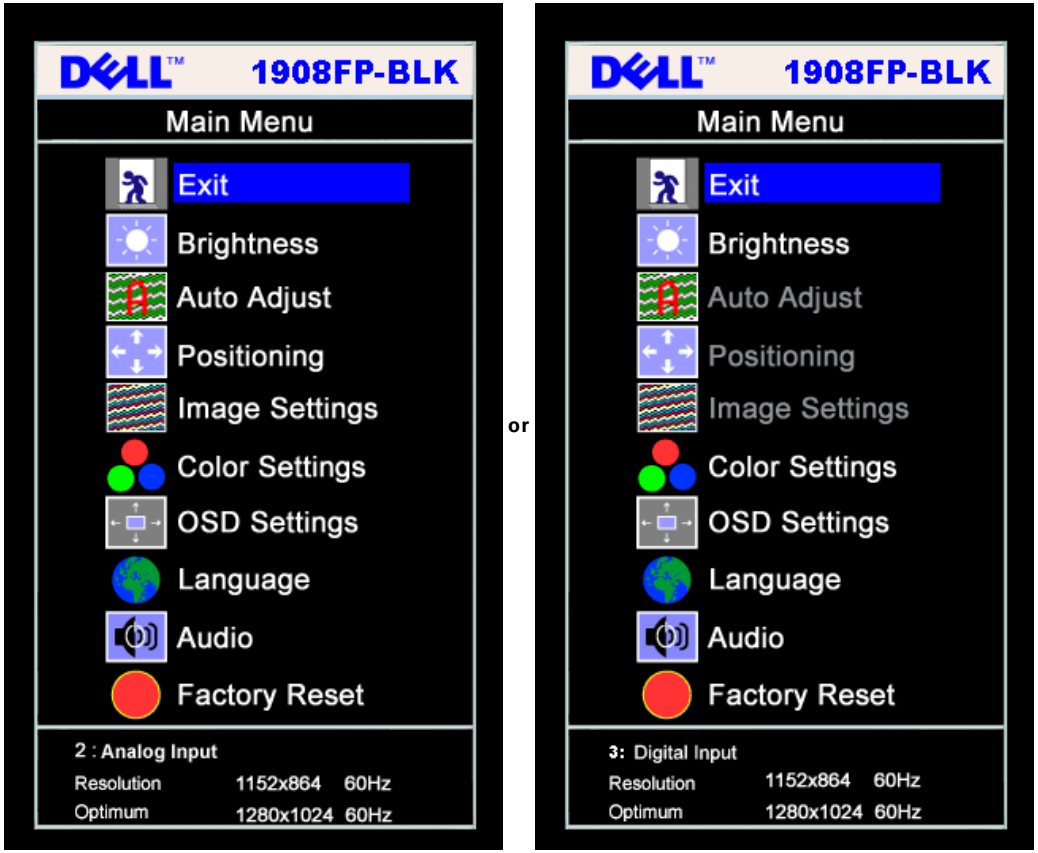

NOTE: Auto Adjust, Positioning and Image Settings are only available when you are using the analog (VGA) connector.

2. Push the **-** and **+** buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the table below for a complete list of all the options available for the monitor.
3. Push the MENU button once to activate the highlighted option.
4. Push - and + button to select the desired parameter.
5. Push MENU to enter the slide bar and then use the **-** and **+** buttons, according to the indicators on the menu, to make your changes.
6. Push the MENU button once to return to the main menu to select another option or push the MENU button two or three times to exit from the OSD menu.

Icon	Menu and Submenus	Description
	Exit	Select to exit the Main menu.
	Brightness/ Contrast	Brightness adjusts the luminance of the backlight. Adjust **Brightness** first, then adjust **Contrast** only if further adjustment is necessary. Push the **+** button to increase luminance and push the **-** button to decrease luminance (min 0 ~ max 100). Contrast adjusts the degree of difference between darkness and lightness on the monitor screen. Push the **+** button to increase the contrast and push the **-** button to decrease the contrast (min 0 ~ max 100).

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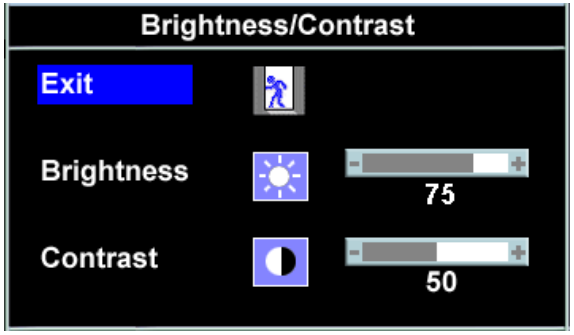
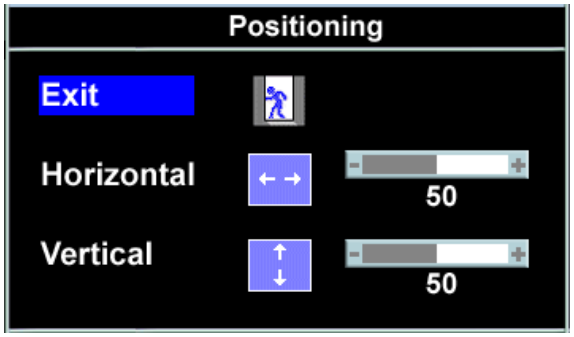
		
	Positioning: **Horizontal** **Vertical**	Positioning moves the viewing area around on the monitor screen. When making changes to either the Horizontal or Vertical settings, no changes occur to the size of the viewing area. The image shifts in response to your selection. Minimum is 0 (-) and maximum is 100 (+). 
	Auto Adjust	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup. Select to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor self-adjusts to the current input: Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings. **NOTE:** In most cases, Auto Adjust produces the best image for your configuration.
   	Image settings: **Pixel Clock** (Coarse) **Phase** (Fine)	The Phase and Pixel Clock adjustments allow you to more closely adjust your monitor to your preference. These settings are accessed through the main OSD menu, by selecting Image Settings. Use the **-** and **+** buttons to make adjustments. (Minimum: 0 ~ Maximum: 100) If satisfactory results are not obtained using the Phase adjustment, use Pixel Clock (Coarse) and then use Phase (fine), again. **NOTE:** This function may change the width of the display image. Use the Horizontal function of the Position menu to center the display image on the screen.

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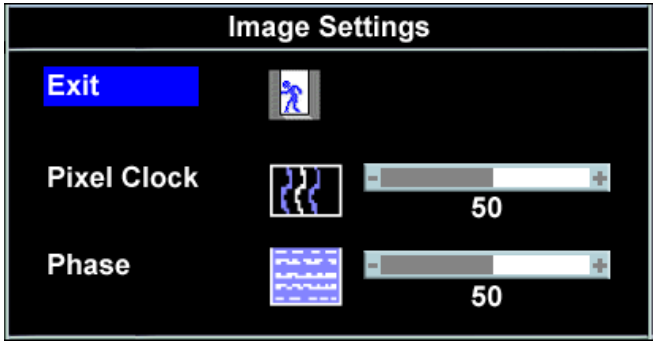
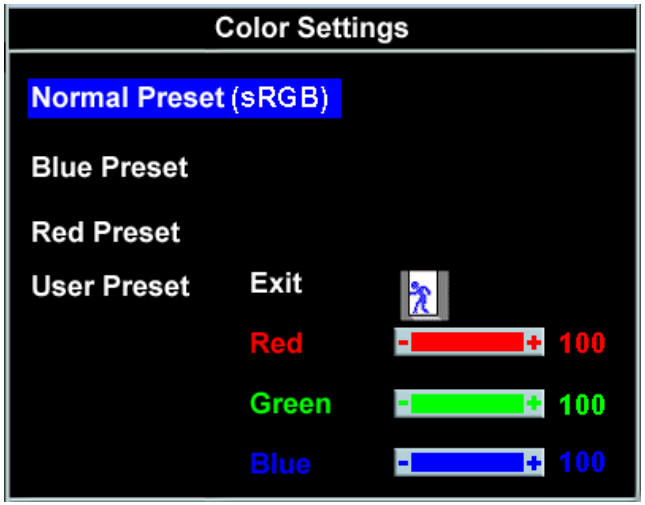


NOTE: When using DVI source, the Image Settings option is not available.

Color Settings

Color Settings adjusts the color temperature, color hue, and saturation.
The color hue is most noticeable in areas of white.



Normal Preset

- Normal Preset is selected to obtain the default (factory) color settings. This setting is also the “sRGB” standard default color space.

Blue Preset

- Blue Preset is selected to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets, programming, text editors, etc.).

Red Preset

- Red Preset is selected to obtain a redder tint. This color setting is typically used for color-intensive applications (photograph image editing, multimedia, movies, etc.).

User Preset

- User Preset: Use the plus and minus buttons to increase or decrease each of the three colors (R, G, B) independently, in single digit increments, from 0 to 100.

OSD Settings:

Adjust the settings for the OSD, including the location, the amount of time the menu remains on-screen, and the rotation of the OSD.

Horizontal Position

Vertical Position

Position of the OSD:

- To adjust the horizontal position of the OSD, use the **-** and **+** buttons, and move OSD to the left and right.
- To adjust the vertical position of the OSD, use the **-** and **+** buttons, and move OSD down and up.

OSD Hold Time

OSD Hold Time:
The OSD stays active for as long as it is in use. Adjusting the hold time, sets the length of time the OSD remains active after the last time you pressed a button. Use the **-** and **+** buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.

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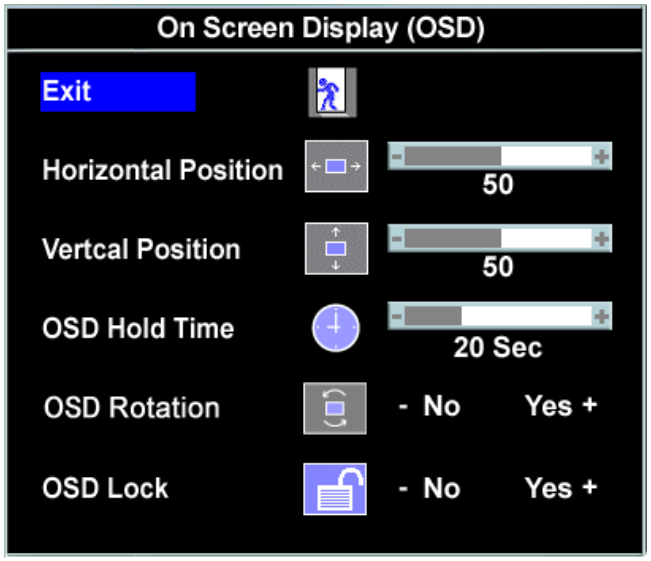
	OSD Rotation	OSD Rotation: Rotates the OSD by 90 ° counter-clockwise. Adjust according to Rotating Your Monitor setction
	OSD Lock	OSD Lock: Controls user access to adjustments. When Yes (+) is selected, no user adjustments are allowed. All buttons are locked except the menu button. **NOTE:** When the OSD is locked, pressing the menu button takes the user directly to the OSD settings menu, with OSD Lock selected. Select No (-) to unlock and allow user access to all applicable settings.  **NOTE:** You can also lock or unlock the OSD by pushing and holding the Menu button for 15 seconds.
	Language	Select to have the OSD display in one of five languages (English, French, Spanish, German, or Japanese). NOTE: The change only affects the OSD. It has no effect on any software running on the computer.
	Audio (optional)	You can select to have the audio on or off when the monitor is in power saving mode. **Yes** — enables audio **No** — disables audio (default)

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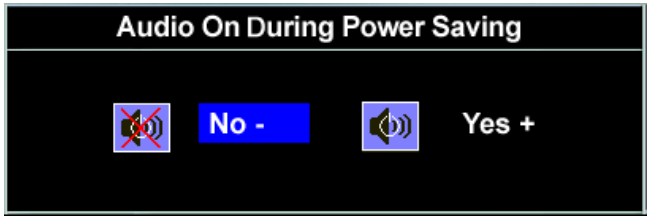
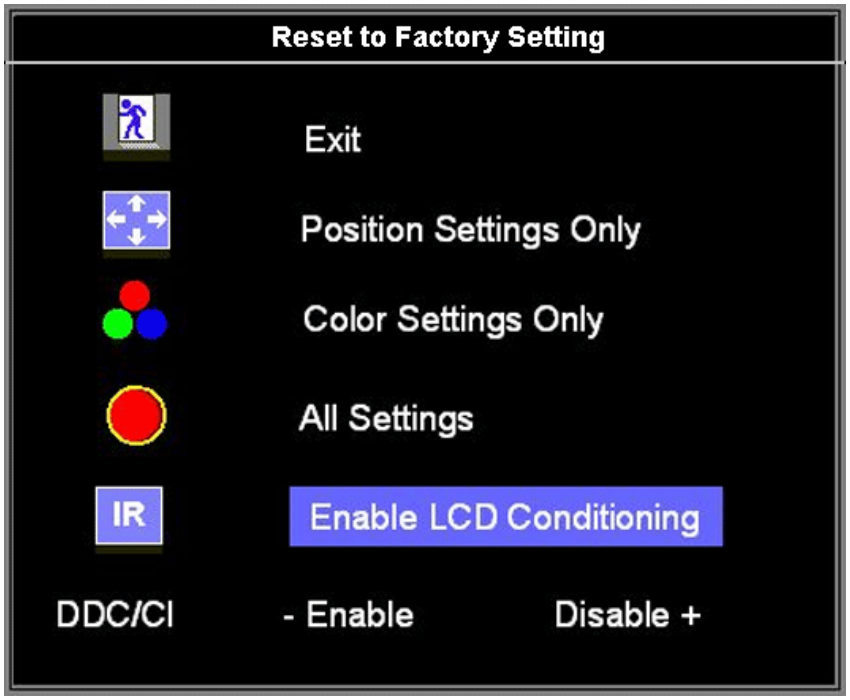


NOTE: When the Dell Soundbar is not properly connected to the monitor, the audio menu is not available.

Factory Reset: Reset the OSD menu options to the factory preset values.



Exit — Select to exit out of Reset to Factory Settings menu without resetting any OSD options.

Position settings only — Change the settings for Image Position back to original factory settings.

Color settings only — Change the Red, Green, and Blue settings back to their original factory settings and set the default setting for Normal Preset.

All settings — Change all the user-adjustable settings including color, position, brightness, contrast and OSD hold time to the factory defaults. The language of the OSD does not change.

IR — This feature will help reduce minor cases of image retention.

Enable LCD Conditioning: If an image appears to be stuck on the monitor, select **LCD Conditioning** to help eliminate any image retention. Using the LCD Conditioning feature may take several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove burn-in.

NOTE: Use LCD Conditioning only when you experience a problem with image retention.

Below warning message appears once user select “Enable LCD Conditioning”:

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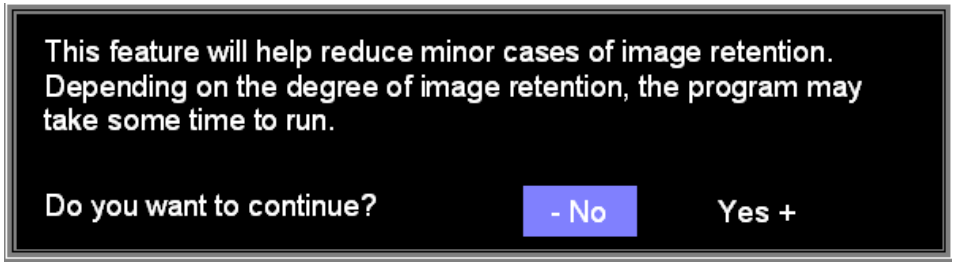

This feature will help reduce minor cases of image retention.
Depending on the degree of image retention, the program may take some time to run.
Do you want to continue?
- No
Yes +

NOTE: Press any button on the monitor to terminate LCD Conditioning at any time.

DDC/CI — Enable the DDC/CI control function.

DDC/CI (Display Data Channel/Command Interface) allows you to adjust the monitor parameters (brightness, color balance, etc) via software applications on your PC.

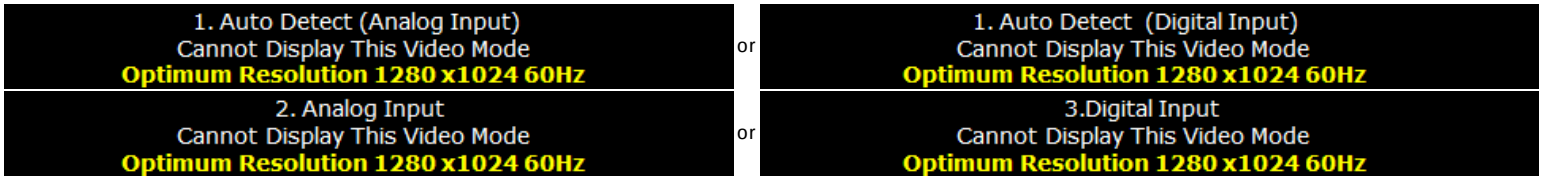
Default is "Enable". You can disable this feature by selecting "Disable".

For best user experience and optimum performance of your monitor, keep this feature enabled.

NOTE: If user select "Disable", display Warning message box as below. Select "Yes" disable DDC/CI and return to "Factory Reset" menu. Warning message time-out in 20 sec.

OSD Warning Messages

One of the following warning messages may appear on the screen indicating that the monitor is out of synchronization.


1. Auto Detect (Analog Input)
Cannot Display This Video Mode
Optimum Resolution 1280 x1024 60Hz
or
1. Auto Detect (Digital Input)
Cannot Display This Video Mode
Optimum Resolution 1280 x1024 60Hz
2. Analog Input
Cannot Display This Video Mode
Optimum Resolution 1280 x1024 60Hz
or
3.Digital Input
Cannot Display This Video Mode
Optimum Resolution 1280 x1024 60Hz

This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1280 X 1024.

NOTE: The floating Dell Self-test Feature Check dialog appears on-screen if the monitor cannot sense a video signal.

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Occasionally, no warning message appears, but the screen is blank. This could also indicate that the monitor is not synchronizing with the computer.

See Common Problems

Setting the Optimal Resolutionn

To set the optimal resolution for the monitor:

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to **1280 X 1024**.
4. Click **OK**.

If you do not see 1280 X 1024 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

- If you have a Dell desktop or portable computer:
  support.dell.com, enter your service tag, and download the latest driver for your graphics card.
- If you are using a non-Dell computer (portable or desktop):
  - Go to the support site for your computer and download the latest graphic drivers.
  - Go to your graphics card website and download the latest graphic drivers.

Using the Dell Soundbar (Optional)

The Dell Soundbar is a stereo two channel system adaptable to mount on Dell flat panel displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a white LED for power indication, and two audio headset jacks.

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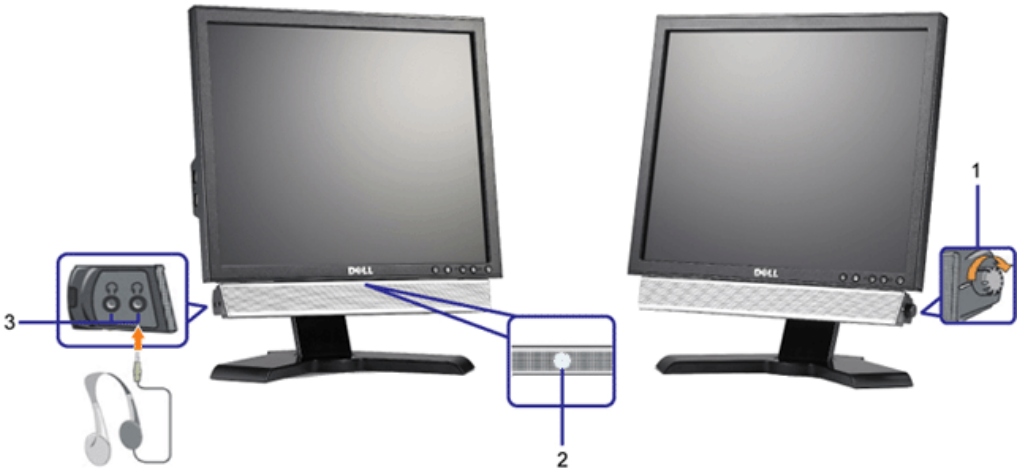
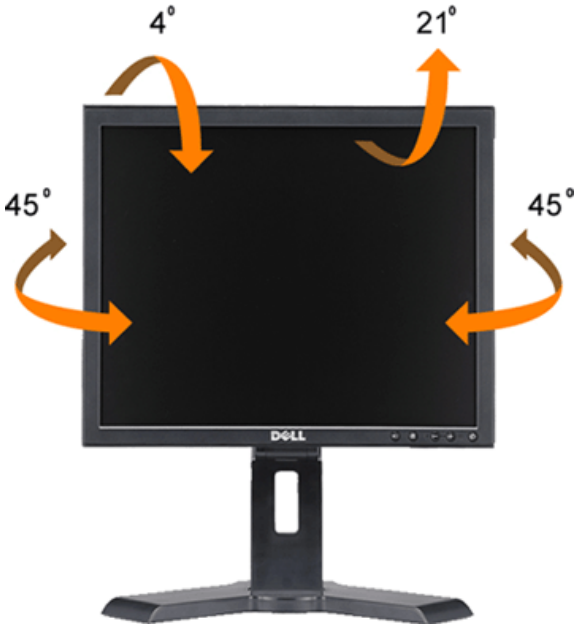


1. Power/volume control
2. Power indicator
3. Headphone connectors

Using the Tilt, Swivel, and Vertical Extension

Tilt / Swivel

With the built-in pedestal, you can tilt and/or swivel the monitor for the most comfortable viewing angle.



NOTE: Stand is detached and extended when the monitor is shipped from the factory.

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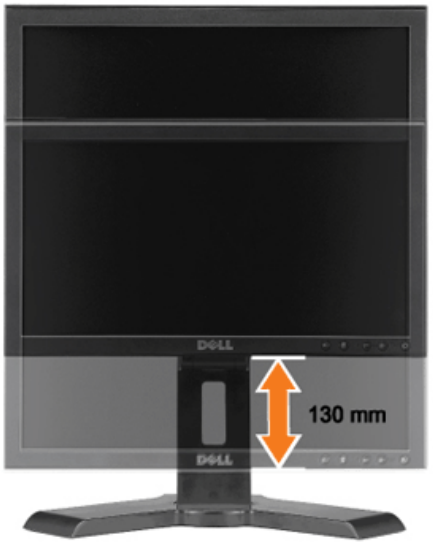
Vertical Extension

Stand extends vertically up to 130mm.



Changing the Rotation of Your Monitor

Before you rotate the monitor, your monitor should either be vertically extended (Vertical Extension) or titled (Tilt) to avoid hitting the bottom edge of the monitor.

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Troubleshooting

Dell™ 1908FP-BLK Flat Panel Monitor User's Guide

- Troubleshooting Your Monitor
- Common Problems
- Product Specific Problems
- USB Problems
- Troubleshooting Your Soundbar

⚠ **CAUTION:** Before you begin any of the procedures in this section, follow the Safety Instructions

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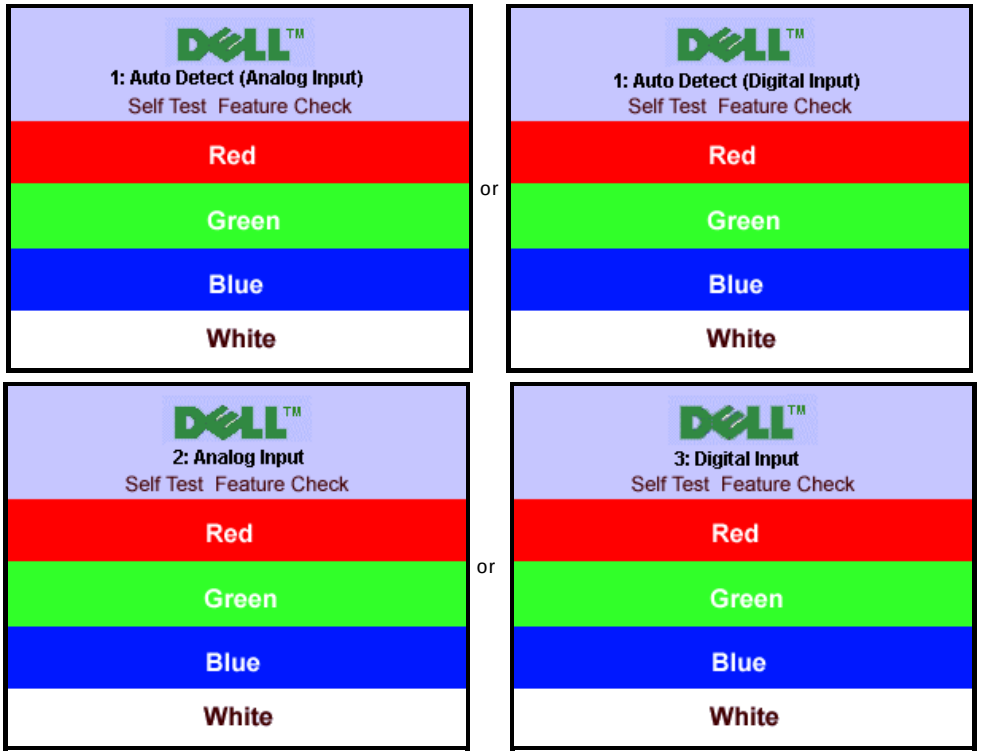
Troubleshooting Your Monitor

Self-Test Feature Check

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove both Digital (white connector) and the Analog(blue connector) cables from the back of computer.
3. Turn on the monitor.

NOTE: The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains blue. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.



This box also appears during normal system operation if the video cable becomes disconnected or damaged.

4. Turn off your monitor and reconnect the video cable, then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

NOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.

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To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold the and buttons on the front panel, simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press the button on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.

The test is complete when the white screen appears. To exit, press the button again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common Problems

The following table contains general information about common monitor problems you might encounter.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture, monitor is dead	• Check connection integrity at the both ends of the video cable, verify that the monitor and computer are plugged into a working electrical outlet, and that you have pressed the power button.
No Video/Power LED on	No picture or no brightness	• Press the input select button in the front of the monitor and ensure the correct input source is selected. • Increase brightness & contrast controls. • Perform monitor self-test feature check. • Check for bent or broken pins on the end of the video cable. • Reboot your computer and monitor.
Poor Focus	Picture is fuzzy, blurry, or ghosting	• Push Auto Adjust button. • Adjust Phase and Clock controls via OSD. • Eliminate video extension cables. • Perform monitor reset. • Lower video resolution or increase font size.
Shaky/Jittery Video	Wavy picture or fine movement	• Push Auto Adjust button. • Adjust Phase and Clock controls via OSD. • Perform monitor reset. • Check environmental factors. • Relocate and test in another room.
Missing Pixels	LCD screen has spots	• Cycle power on-off • These are pixels that are permanently off and this is a natural defect that occurs in LCD technology.
Brightness Problems	Picture too dim or too bright	• Perform monitor reset. • Push Auto Adjust button. • Adjust brightness & contrast controls.
Geometric Distortion	Screen not centered correctly	• Perform monitor reset on "Position Settings Only". • Push Auto Adjust button. • Adjust the centering controls. • Ensure monitor is in proper video mode.
Horizontal/Vertical Lines	Screen has one or more lines	• Perform monitor reset. • Push Auto Adjust button. • Adjust Phase and Clock controls via OSD. • Perform monitor self-test feature check and determine if these lines are also in self-test

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		mode. • Check for bent or broken pins.
Sync Problems	Screen is scrambled or appears torn	• Perform monitor reset. • Push Auto Adjust button. • Adjust Phase and Clock controls via OSD. • Perform monitor self-test feature check to determine if scrambled screen appears in self-test mode. • Check for bent or broken pins. • Boot up in the "safe mode".
LCD Scratched	Screen has scratches or smudges	• Turn monitor off and clean the screen. • For cleaning instruction, see Cleaning Your Monitor.
Safety Related Issues	Visible signs of smoke or sparks	• Do not perform any troubleshooting steps. • Monitor needs to be replaced.
Intermittent Problems	Monitor malfunctions on and off	• Ensure monitor is in proper video mode. • Ensure video cable connection to computer and to the flat panel is secure. • Perform monitor reset. • Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Image Retention (from a static image)	Faint Shadow from the static image displayed appears on the screen	• Use the Power Management feature to turn off the monitor at all times when not in use. Alternatively, use a dynamically changing screensaver left on the monitor for a long period of time. • In OSD Menu, under Reset to Factory Settings, select **Enable LCD Conditioning.** Using this option may take several hours before the image is eliminated. **NOTE:** Image Burn-in is not covered by your warranty.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area.	• Perform monitor reset on "All Settings."
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	• Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.

USB Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working.	• Check that your monitor is turned ON. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Switch off and then turn on the monitor again.
High Speed USB 2.0 interface is slow	High Speed USB 2.0 peripherals working slowly or not at all.	• Check that your computer is USB 2.0 capable. • Verify USB 2.0 source on your computer. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector).

Troubleshooting Your Soundbar

Specific Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off. (built-in DC power supply. i.e.1908FP-BLK)	• Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (white LED) on the front of the Soundbar is illuminated. • Confirm that the power cable from the Soundbar is plugged

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		into the monitor. • Confirm that the monitor has power. • If the monitor has no power, see Troubleshooting your monitor for monitor common problem.
No Sound	Soundbar has power - power indicator is on.	• Plug the audio line-in cable into the computer's audio out jack. • Set all Windows volume controls to their maximum. • Play some audio content on the computer (i.e. audio CD, or MP3). • Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. • Clean and reseat the audio line-in plug. • Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source.	• Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the sound card. • Set all Windows volume controls to their midpoints. • Decrease the volume of the audio application. • Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. • Clean and reseat the audio line-in plug. • Troubleshoot the computer's sound card. • Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used.	• Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the audio source. • Decrease the volume of the audio source. • Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. • Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	• Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. • Set all Windows audio balance controls (L-R) to their midpoints. • Clean and reseat the audio line-in plug. • Troubleshoot the computer's sound card. • Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low.	• Clear any obstructions between the Soundbar and the user. • Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. • Set all Windows volume controls to their maximum. • Increase the volume of the audio application. • Test the Soundbar using another audio source (i.e. portable CD player).

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Appendix

Dell™ 1908FP-BLK Flat Panel Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting Dell

CAUTION: Safety Instructions

CAUTION: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Product Information Guide*.

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at: http://www.dell.com/regulatory_compliance.

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

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